

Grade 8

Distance Learning Module 9: Week of: June 1st - June 5th

Grade 8 Science- *Modified from* – [Unit 4 Chemistry](#)

Targeted Goals from Stage 1: Desired Results

Students will be able to use information from the periodic table to write and read chemical formulas. Students will also be able to demonstrate the skill of using the oxidation numbers of elements to perform the crossover method of formula writing.

Vocabulary: oxidation number, crossover method, ionic, covalent, metal, nonmetal, salt compounds

Skills: Performing the crossover method to write formulas, reading formulas accurately, and using the periodic table

Expectation:

Description of Task (s):	Resources and Materials: (links to resources posted in Google Classroom)	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Watch the tutorial and take notes in the linked note sheet provided. Tutorial video on how elements form chemical bonds at Showme.com : (Link to video posted in Google Classroom) Also, check out this video on this topic too. (No notes required for this one, just observe). Youtube video: Writing Ionic Formulas: Introduction	Use this document and complete the example problems along with the tutorial video today: (Link to document posted in Google Classroom)	Turn in your completed tutorial note sheet from today's lesson. If you had to write in your notebook, simply take a picture of your notes and upload them to google classroom. You may also be able to use the Kami extension on google chrome to write over the document on your computer if you'd like.
Tuesday: Watch the tutorial and take notes in the linked note sheet provided. Introduction to the Cross-Over Method of Formula Writing. Cross Over Method tutorial video: at Showme.com : (Link to video posted in Google Classroom)	This document should be used while watching today's tutorial video. Either print it out or type within the doc. Note sheet that goes with today's tutorial, Google Doc Version: Formula Writing: Lewis Dot and cross over	Turn in your completed tutorial note sheet from today's lesson. If you write them by hand, please snap a photo and upload it to google classroom. You may also be able to use the Kami extension on google chrome to write over the document on your computer if you'd like.

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Also, check out this video on this topic too. (No notes required for this one, just observe). YouTube Video: WCLN - Crossover Method - Chemistry		
Wednesday: Today, you will see how atoms can form covalent bonds. Here is the tutorial that goes along with your Covalent Bonding note sheet: at Showme.com : (Link to video posted in Google Classroom) Watch this helpful video too: YouTube video: Covalent Bonding Tutorial — Covalent vs. Ionic bonds, explained Crash Chemistry Academy Then, you will spend time practicing with your formula writing skills by completing the linked worksheets.	Intro to Covalent Bonding Note sheet: (Link to document posted in Google Classroom) Bonding Basics Review and Practice: (Link to document posted in Google Classroom)	Turn in your completed note/practice sheets. If you write them by hand, please snap a photo and upload it to google classroom. You may also be able to use the Kami extension on google chrome to write over the document on your computer if you'd like. Bonding Basics Review Answer Key (scroll to page 2 for the key): (Link to document posted in Google Classroom)
Thursday: Identify whether a bond is ionic or covalent by using the periodic table. Watch this video: YouTube video: Chemical Bonds: Covalent vs. Ionic Practice reading chemical formulas and be able to tell how many atoms of each element are there.	Ionic vs Covalent Practice Sheet: (Link to document posted in Google Classroom) Reading the number of atoms in a formula: (Link to document posted in Google Classroom)	Turn in your completed practice sheets. If you write them by hand, please snap a photo and upload it to google classroom. You may also be able to use the Kami extension on google chrome to write over the document on your computer if you'd like. Ionic vs Covalent Answer key: (Link to document posted in Google Classroom) Reading the number of atoms in a formula answer key:

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		(Link to document posted in Google Classroom)
Friday: Now it is time to demonstrate how well you understood chemical bonding by taking the edulastic assessment	Complete the Edulastic Assessment	Edulastic Check-In

Week criteria for success (attach student checklists or rubrics):

Students will submit completed copies of note sheets as well as completed practice worksheets. Students will demonstrate their level of understanding by completing an edulastic assessment at the end of the week.

Supportive resources and tutorials for the week (plans for re-teaching):

Chem bonding vids

WCLN - Crossover Method - Chemistry

Intro video for writing chem formulas for ionic cmpds – YouTube video: Writing Ionic Formulas: Introduction

Writing Formulas with Polyatomic Ions